

From the INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

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PCI

NOTIFICATION OF TRANSMITTAL OF INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Rule 71.1)

Date of Mailing (day/month/year)

08 APR 200Z

Applicant's or agent's file reference

14538A-53-1PC

International filing date (day/month/year)

Priority Date (day/month/year)

PCT/US00/22226

International application No.

11 AUGUST 2000

18 AUGUST 1999

IMPORTANT NOTIFICATION

Applicant

FRED HUTCHINSON CANCER RESEARCH CENTER

- 1. The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary examination report and its annexes, if any, established on the international
- 2. A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
- 3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.

4. REMINDER

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices)(Article 39(1))(see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

Name and mailing address of the IPEA/US

Commissioner of Patents and Trademarks Box PCT Washington, D.C. 20231 Authorized officer

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference	FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)				
International application No.	International filing date (day/n	nonth/year)	Priority date (day/month/year)		
PCT/US00/22226	11 AUGUST 2000		13 AUGUST 1999		
International Patent Classification (IPC) Please See Supplemental Sheet.	or national classification and II	PC			
Applicant FRED HUTCHINSON CANCER RES	EARCH CENTER				
Examining Authority and is 2. This REPORT consists of a	total of sheets.	according to			
This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority. (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).					
These annexes consist of a to	tal of sheets.				
3. This report contains indication	as relating to the following it	ems:			
I X Basis of the repo	ort				
II Priority					
III Non-establishme	III Non-establishment of report with regard to novelty, inventive step or industrial applicability				
IV Lack of unity of	IV Lack of unity of invention				
V X Reasoned statemen	V X Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
VI Certain documents	cited				
VII Certain defects in	the international application				
VIII Certain observation	VIII Certain observations on the international application				
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			6.1		
Date of submission of the demand	Date	e of completion	n of this report		
07 MARCH 2001	۶	28 FEBRUAR	Y 2002		
Name and mailing address of the IPEA	, 00	orized officer	L HINDS		
Commissioner of Patents and Trader Box PCT Washington, D.C. 20231	narks	JUST FULLY SCH	a Southerce for		



INTERNATIONAL PRELIMINARY EXAMINATION REPORT

rnational application No.	
PCT/US00/22226	

I.	Ba	sis of th	e report		
1	With	regard to	the elements of the internat	ional application:*	
1.		the inter	national application as	originally filed	
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	X				, as originally filed
		pages _ pages _	NONE .		, filed with the demand
		pages _		, filed with the letter of	
		P. 600 —			
	X	the clair			, as originally filed
		pages _	39-41	, as amended (together with	h any statement) under Article 19
		pages _	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	, as amended (together with	filed with the demand
		pages _	_	, filed with the letter of	,
		pages _	NONE	, 11104 11111 1110 10111 01	
		the drav	vings.		
	X	pages			, as originally filed
		pages _	NONE		, filed with the demand
		pages _		, filed with the letter of	
	X	the sequ	sence listing part of the d	lescription:	e originally filed
		pages	1-21	iosoription.	filed with the demand
		pages_	NONE	, filed with the letter of	, 11100 , 1111 1110 001111111
				nents marked above were available or furnished t	
		the lang	guage of publication of	rmished for the purposes of international s the international application (under Rule 4 nished for the purposes of international prelimin	8.3(b)).
	3. W	or 55.3) ith regard eliminary	I to any nucleotide and/o	or amino acid sequence disclosed in the interest out on the basis of the sequence listing:	mational application, the international
	X	contain	ned in the international a	application in printed form.	
				tional application in computer readable for	m.
	F	furnish	ed subsequently to this	Authority in written form.	
	F	furnish	ed subsequently to this	Authority in computer readable form.	
		The sta	tement that the subseque	ently furnished written sequence listing does in the has been furnished.	
		The sta	tement that the information	n recorded in computer readable form is identic	cal to the writen sequence listing has
	4. X] The ar	mendments have resulte	d in the cancellation of:	
		1 —	the description, pages	NONE	
			the claims, Nos.	NONE	
			the drawings, sheets/fig	NONE	
	5.	This re	eport has been drawn as if	(some of) the amendments had not been made,	C)).**
	* Re			s indicated in the Supplemental Box (Rule 70.2) mished to the receiving Office in response to an im d are not annexed to this report since they do	



INTERNATIONAL PRELIMINARY EXAMINATION REPORT

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V.	Reasoned statement under Article 35(2) vicitations and explanations supporting su	with regard ch stateme	to novelty, inventive step or industrial applicability;					
1.	statement							
	Novelty (N)	Claims	1-6 and 9-15	YES				
		Claims	7, 8	NO				
	Inventive Step (IS)	Claims	1-6 and 9-15	YES				
	Inventive step (12)	Claims	7, 8	NO				
		Claims	1-15	YES				
	Industrial Applicability (IA)	Claims	none	NO				
	HASEGAWA et al. disclose an N-terminal truncated factor VIII comprising an amino acid sequence identical to amino acids 2174-2326 of SEQ ID NO:1 of the present invention. Thus, the HASEGAWA et al. reference meets the limitations of the claims. Since Claims 7 and 8 lack novelty over the HASEGAWA et al. reference, it follows that these claims also lack an inventive step under PCT Article 33(3) as being obvious over HASEGAWA et al.							
	Claims 1-6 and 9-15 meet the criteria set out in PCT Article 33(2)-(3), because the prior art does not teach or fairly							
	suggest of a crystal of the protein-ligand complex claimed or of a method of using the crystal. Claims 1-15 meet the criteria set out in PCT Article 53(4) because the crystal of the protein-ligand complex claimed may be used industrially in structure-based drug design.							
	NEW CITATIONS							
	NONE							
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Supplemental Box

(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of: Boxes I - VIII

Sheet 10

CLASSIFICATION:

The International Patent Classification (IPC) and/or the National classification are as listed below: IPC(7): C12P 21/04; C12N 9/00; C07K 1/00, 14/00; A61K 35/14 and US C1.: 435/69.6, 183; 530/350, 383